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PATENT

Atty. Docket No. 29757/P-396

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|---|---|---|
| Applicant: David Muir | ) | Title: Automatic Electronic Display Alignment |
| Serial No: 09/901,801 | ) | |
| Filed: July 10, 2001 | ) | Group Art Unit: 3713 |
| | ) | Examiner: Unknown |

## TRANSMITTAL OF SUBSTITUTE DRAWINGS

Commissioner for Patents
Washington, D.C. 20231

Attention: Official Draftsman

Sir:

Enclosed herewith are eighteen (18) sheets of formal drawings for substitution in the above-referenced application.

Respectfully submitted,

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By: Mark G. Hanley
Mark G. Hanley
Reg. No: 44,736

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## CERTIFICATE OF MAILING (37 CFR 1.8)

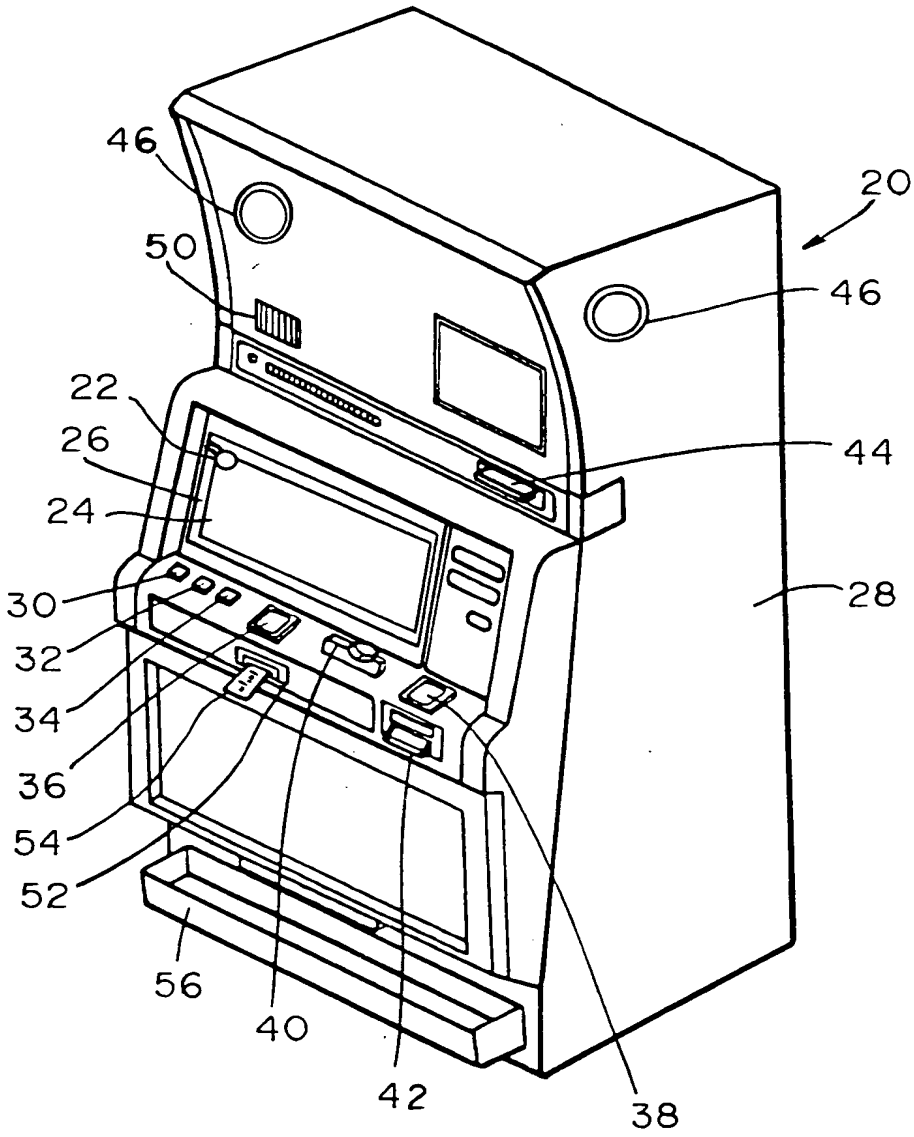
I hereby certify that this paper and the documents referred to as enclosed therewith are being deposited with the United States Postal Service as first class mail, postage prepaid, on **October 29, 2001**, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

Mark G. Hanley
Mark G. Hanley

APPROVED O.G. FIG.
BY CLASS
EXAMINER



FIG. 1



APPROVED BY O.G. FIG. CLASS SUBCLASS

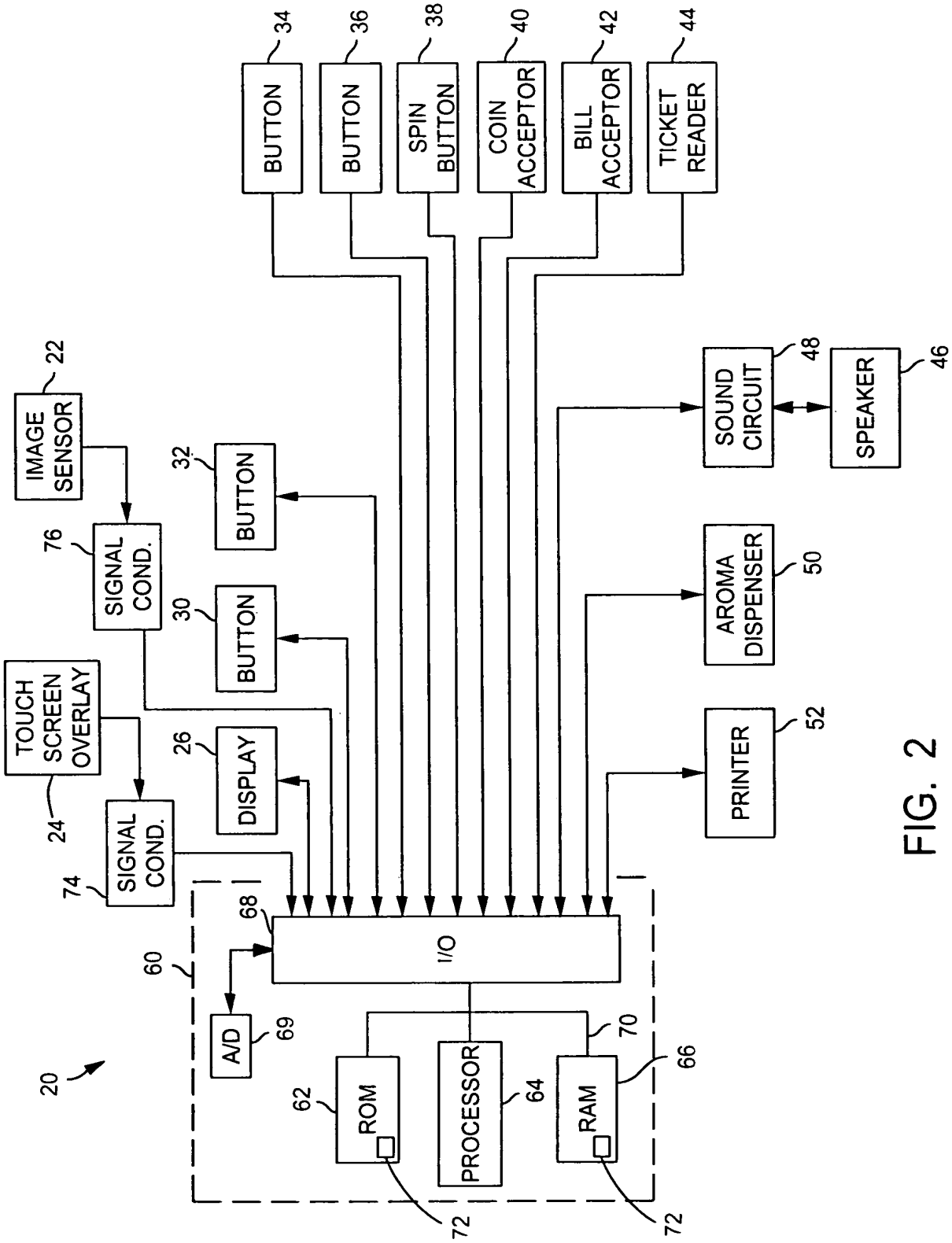



FIG. 2

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS/SUBCLASS



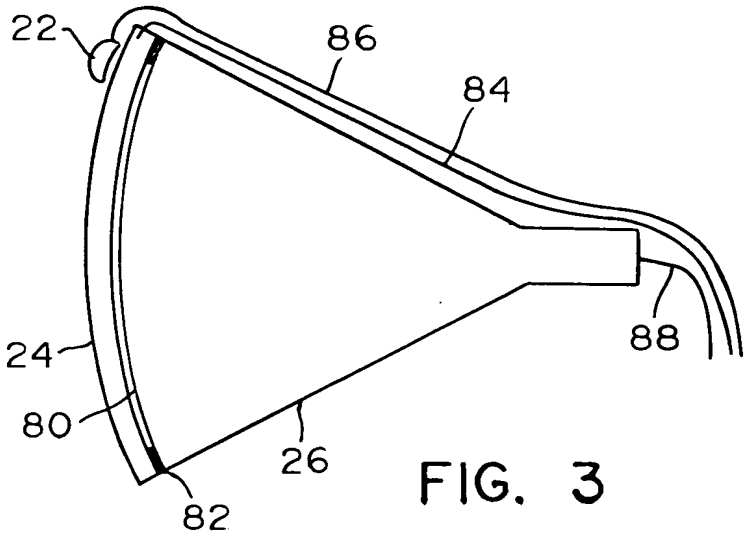



FIG. 3

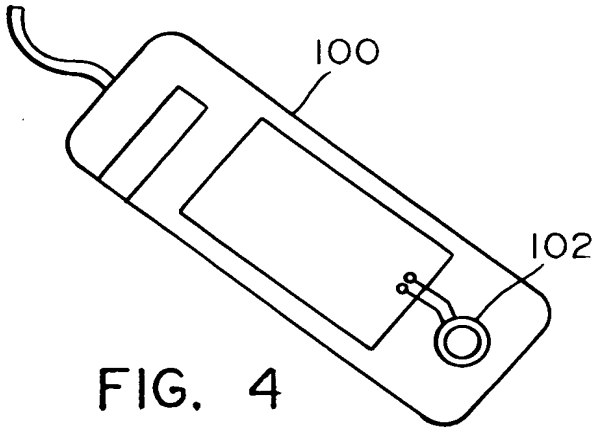



FIG. 4

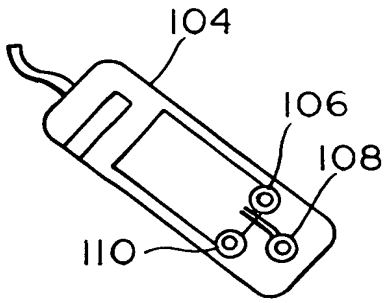



FIG. 5

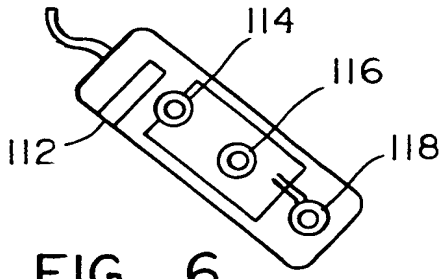



FIG. 6

APPROVED U.S. P.C.
BY
CLASS SUBCLASS
DRAFTSMAN



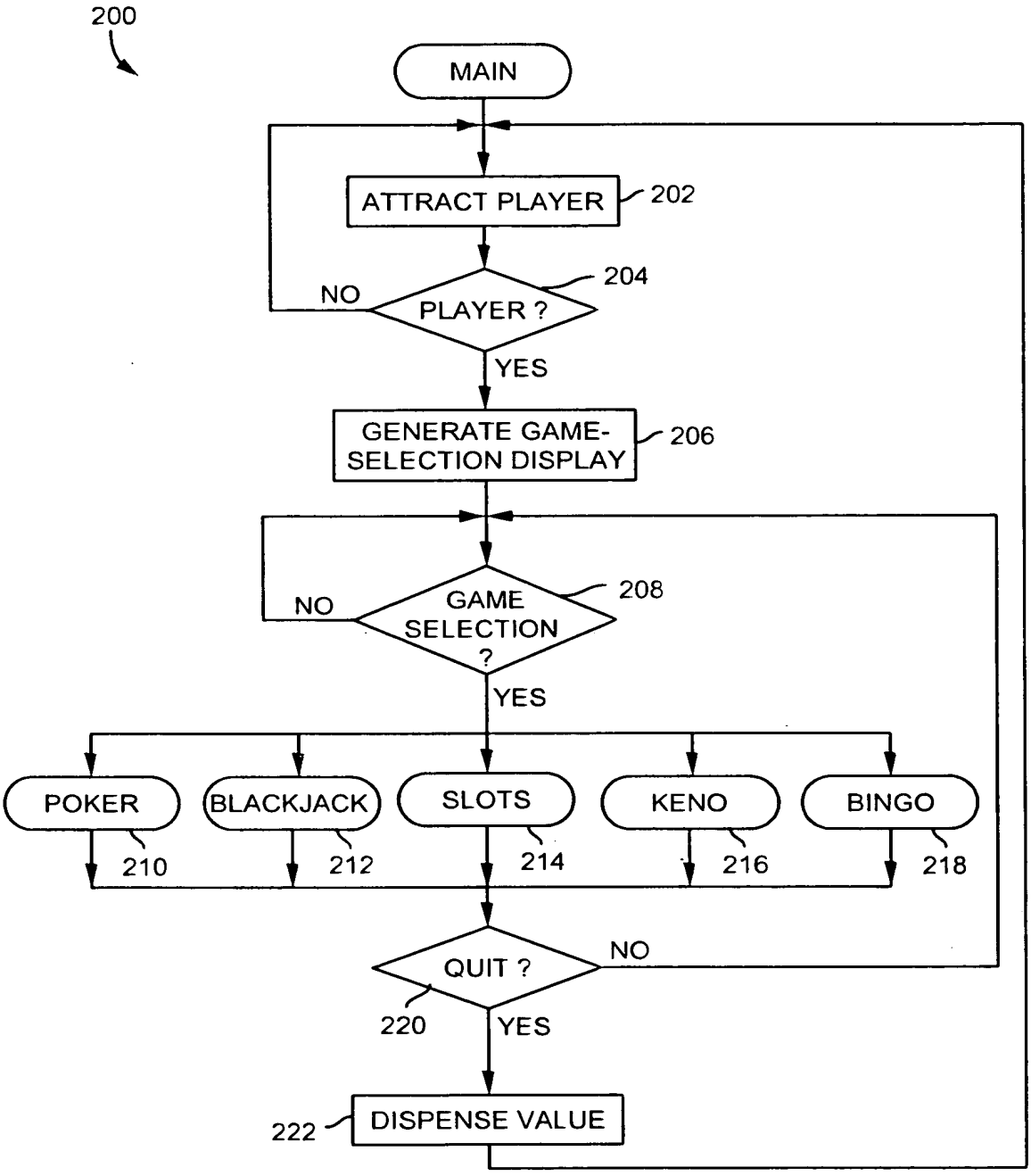



FIG. 7

APPROVED
BY

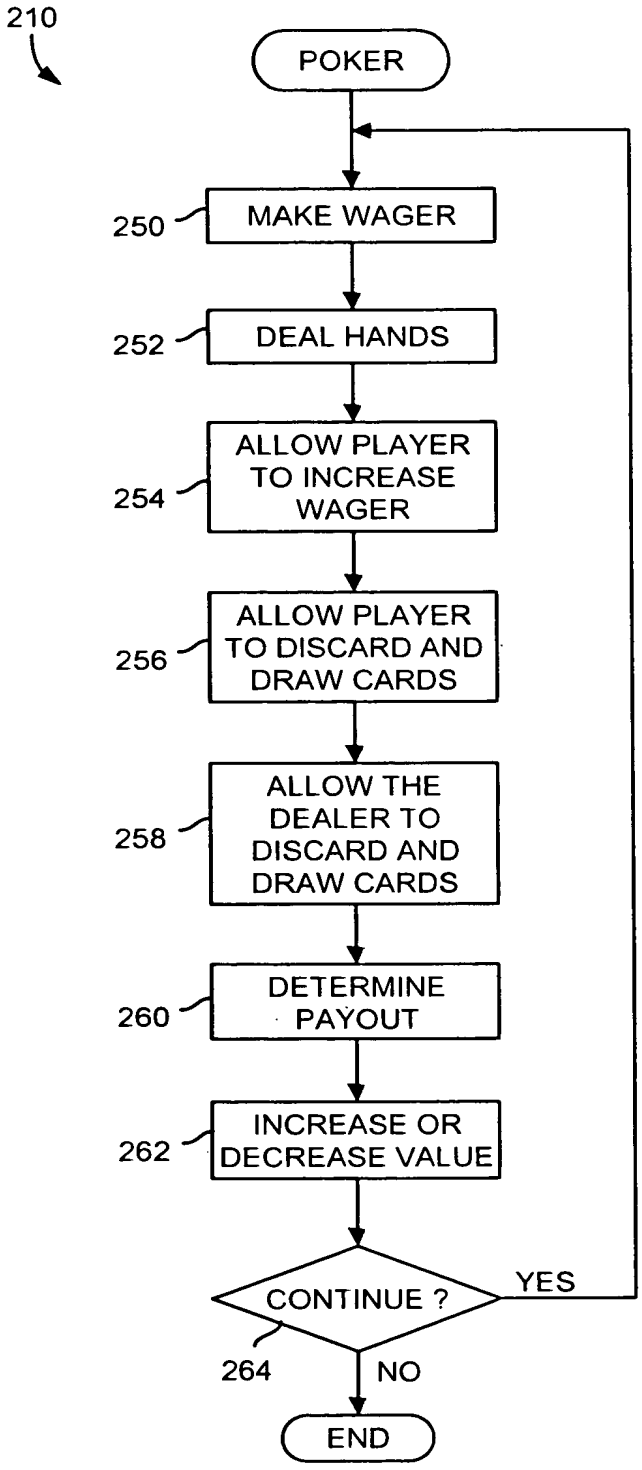



FIG. 8

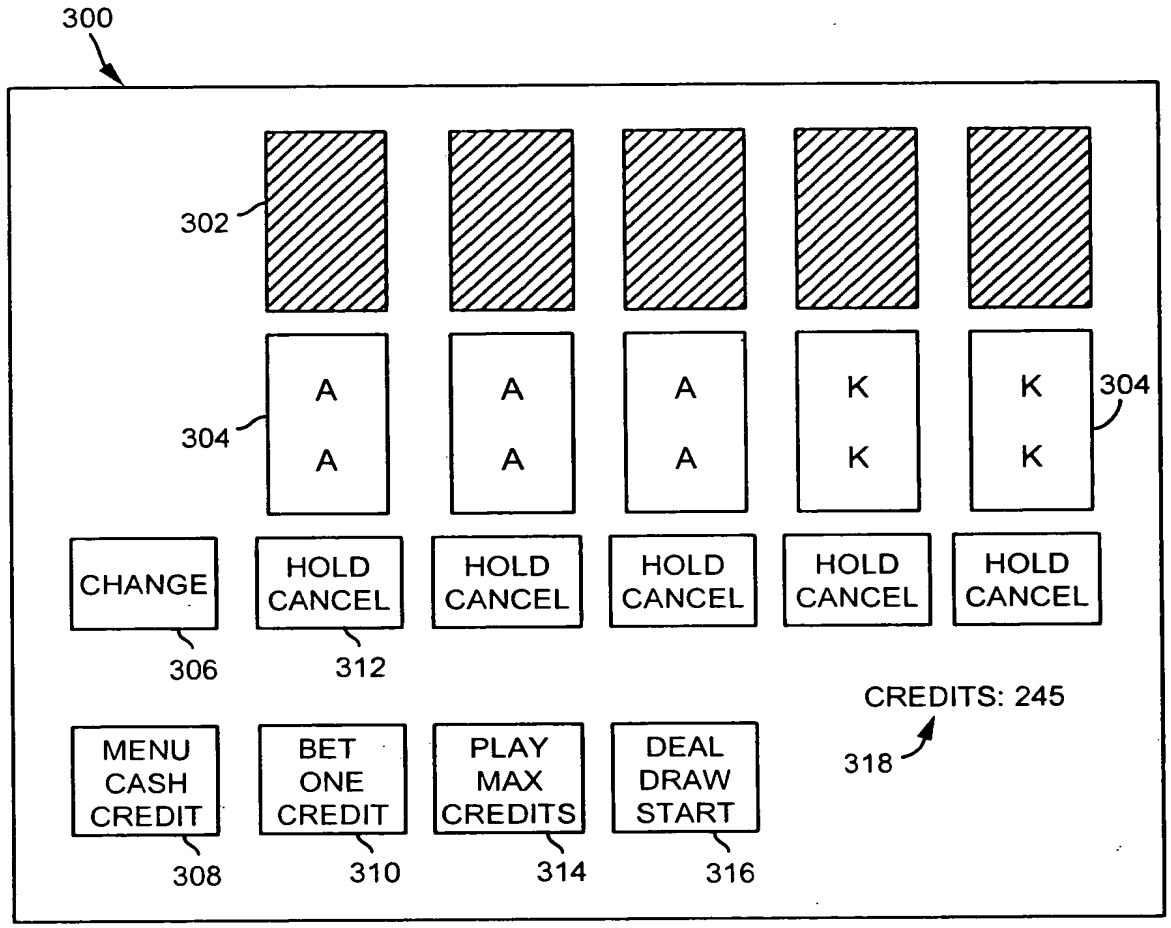

300
302
304
A
A
A
A
A
A
K
K
K
K
304
CHANGE
HOLD CANCEL
HOLD CANCEL
HOLD CANCEL
HOLD CANCEL
HOLD CANCEL
306
312
CREDITS: 245
318
MENU CASH CREDIT
BET ONE CREDIT
PLAY MAX CREDITS
DEAL DRAW START
308
310
314
316

FIG. 9

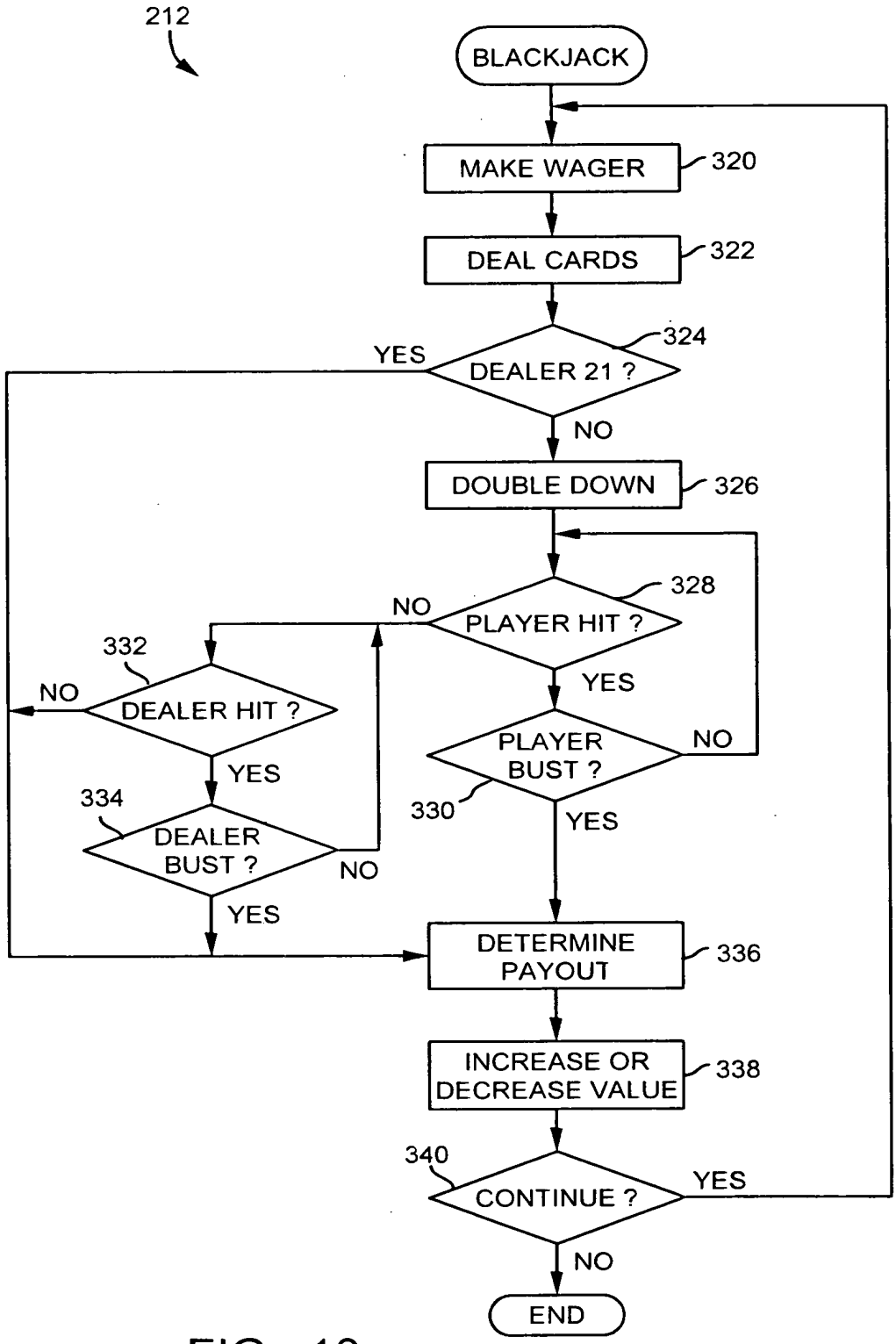

212
BLACKJACK
MAKE WAGER
320
DEAL CARDS
322
DEALER 21 ?
324
YES
NO
DOUBLE DOWN
326
PLAYER HIT ?
328
NO
YES
DEALER HIT ?
332
NO
YES
PLAYER BUST ?
330
NO
YES
DEALER BUST ?
334
NO
YES
DETERMINE PAYOUT
336
INCREASE OR DECREASE VALUE
338
CONTINUE ?
340
YES
NO
END

FIG. 10

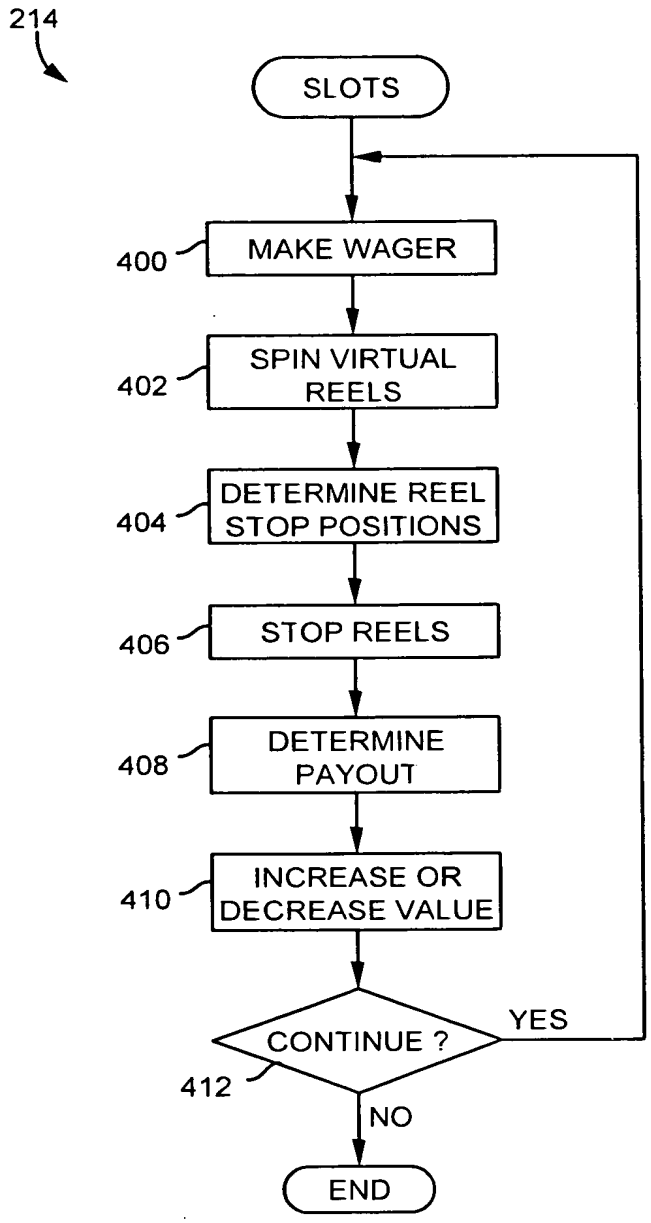

214
SLOTS
400
MAKE WAGER
402
SPIN VIRTUAL REELS
404
DETERMINE REEL STOP POSITIONS
406
STOP REELS
408
DETERMINE PAYOUT
410
INCREASE OR DECREASE VALUE
CONTINUE ?
412
YES
NO
END

FIG. 11

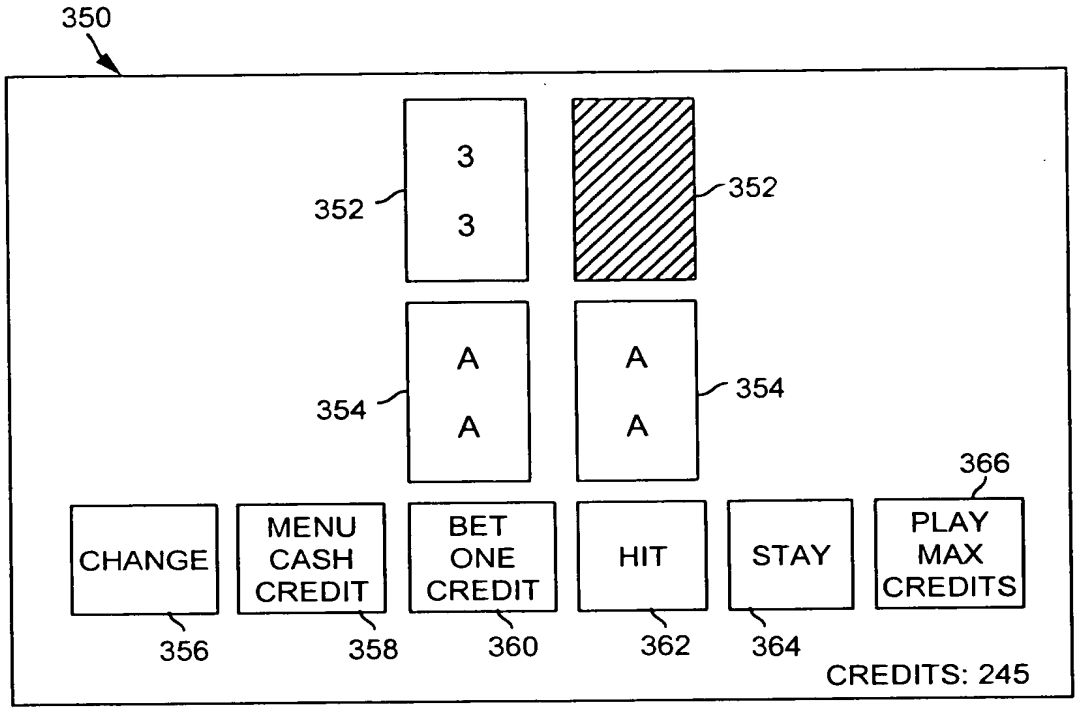

350
3
3
352
352
A
A
354
A
A
354
366
CHANGE
MENU CASH CREDIT
BET ONE CREDIT
HIT
STAY
PLAY MAX CREDITS
356
358
360
362
364
CREDITS: 245

FIG. 12

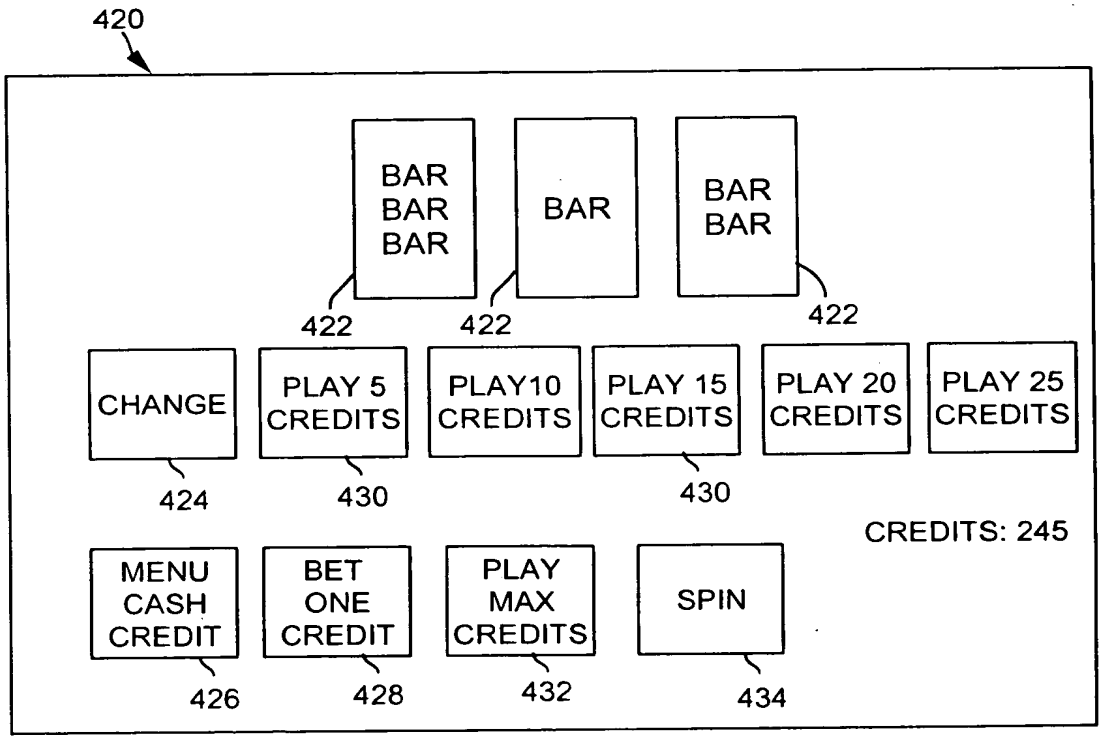

420
BAR BAR BAR
BAR
BAR BAR
422
422
422
CHANGE
PLAY 5 CREDITS
PLAY10 CREDITS
PLAY 15 CREDITS
PLAY 20 CREDITS
PLAY 25 CREDITS
424
430
430
CREDITS: 245
MENU CASH CREDIT
BET ONE CREDIT
PLAY MAX CREDITS
SPIN
426
428
432
434

FIG. 13

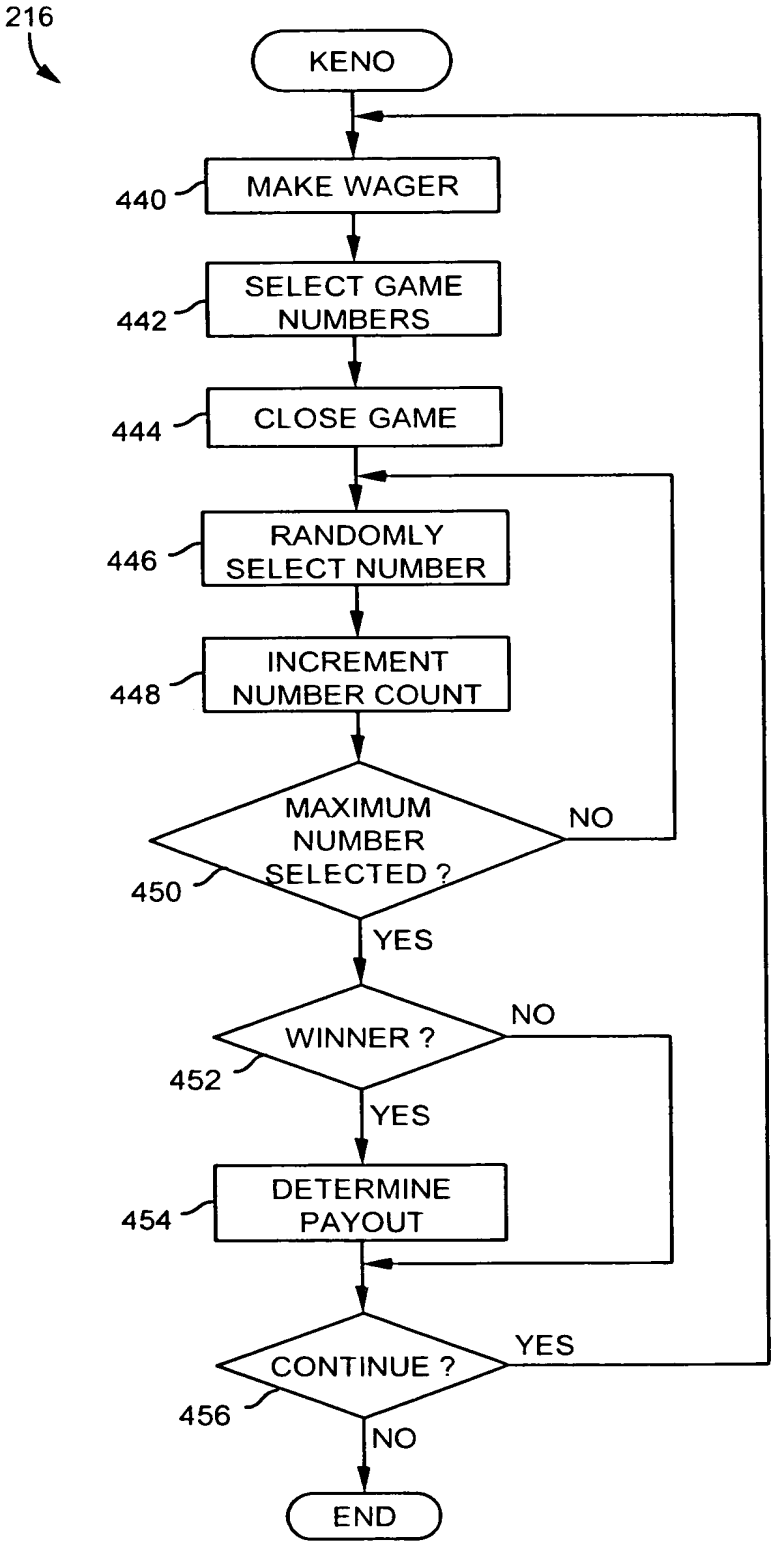

216
KENO
440
MAKE WAGER
442
SELECT GAME NUMBERS
444
CLOSE GAME
446
RANDOMLY SELECT NUMBER
448
INCREMENT NUMBER COUNT
MAXIMUM NUMBER SELECTED ?
450
NO
YES
WINNER ?
452
NO
YES
454
DETERMINE PAYOUT
CONTINUE ?
456
YES
NO
END

FIG. 14

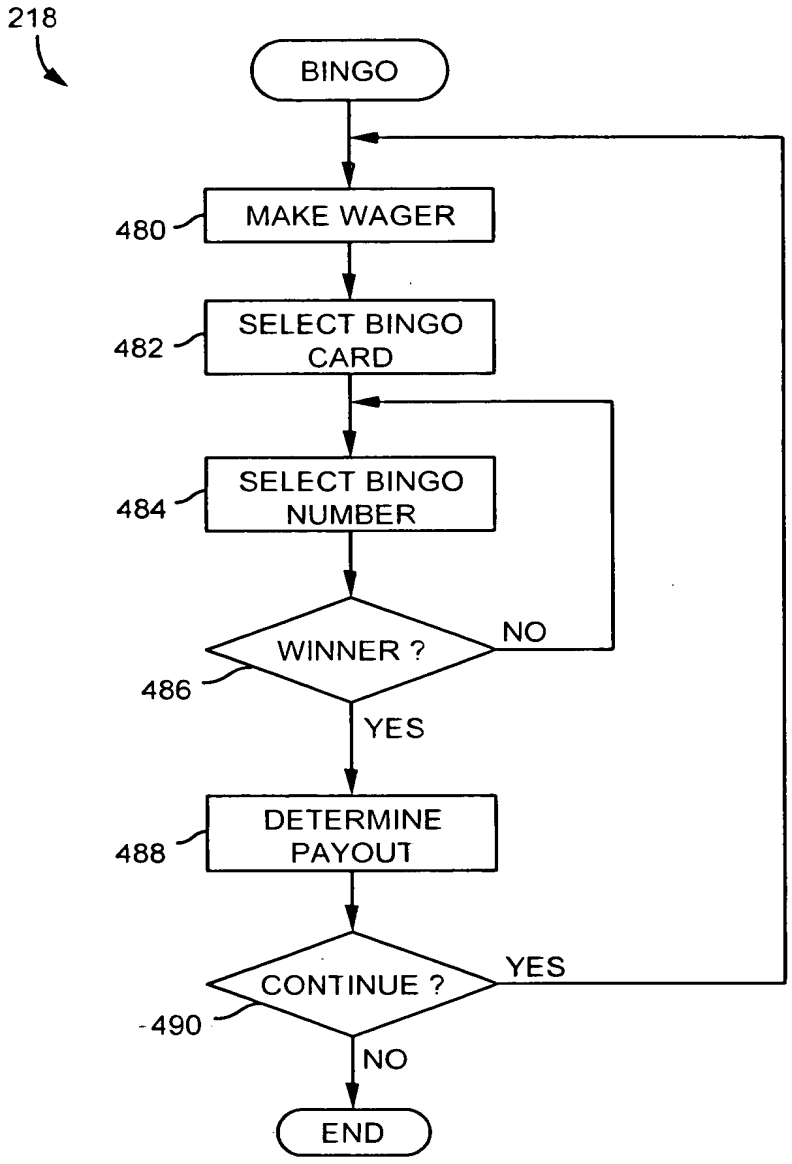

218
BINGO
480
MAKE WAGER
482
SELECT BINGO CARD
484
SELECT BINGO NUMBER
WINNER ?
NO
486
YES
488
DETERMINE PAYOUT
CONTINUE ?
YES
490
NO
END

FIG. 15

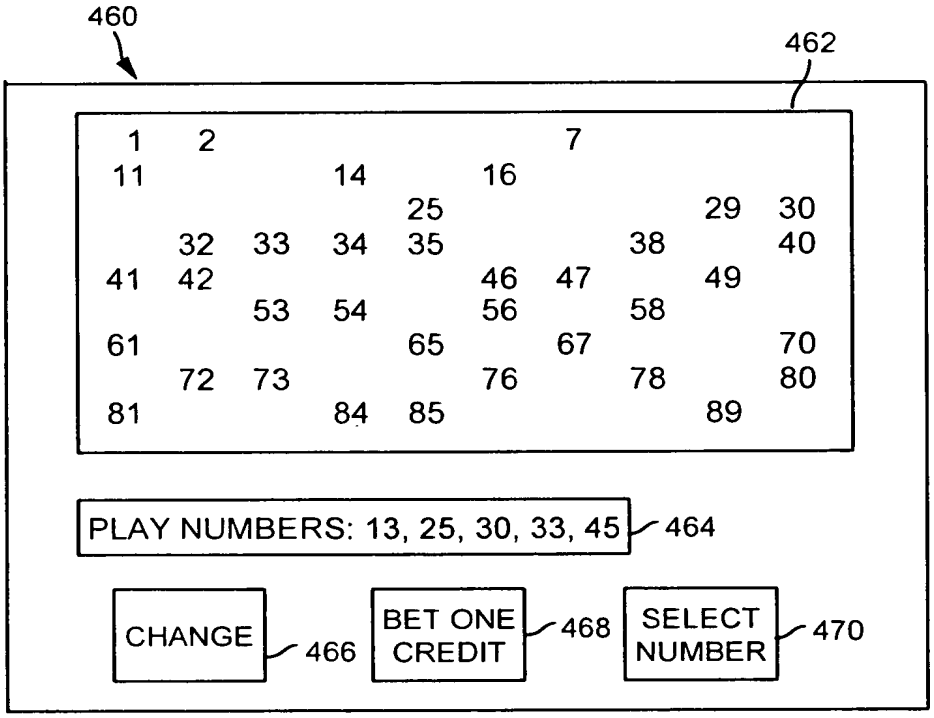

460
462
1 2 7
11 14 16
25 29 30
32 33 34 35 38 40
41 42 46 47 49
53 54 56 58
61 65 67 70
72 73 76 78 80
81 84 85 89
PLAY NUMBERS: 13, 25, 30, 33, 45
464
CHANGE
466
BET ONE CREDIT
468
SELECT NUMBER
470

FIG. 16

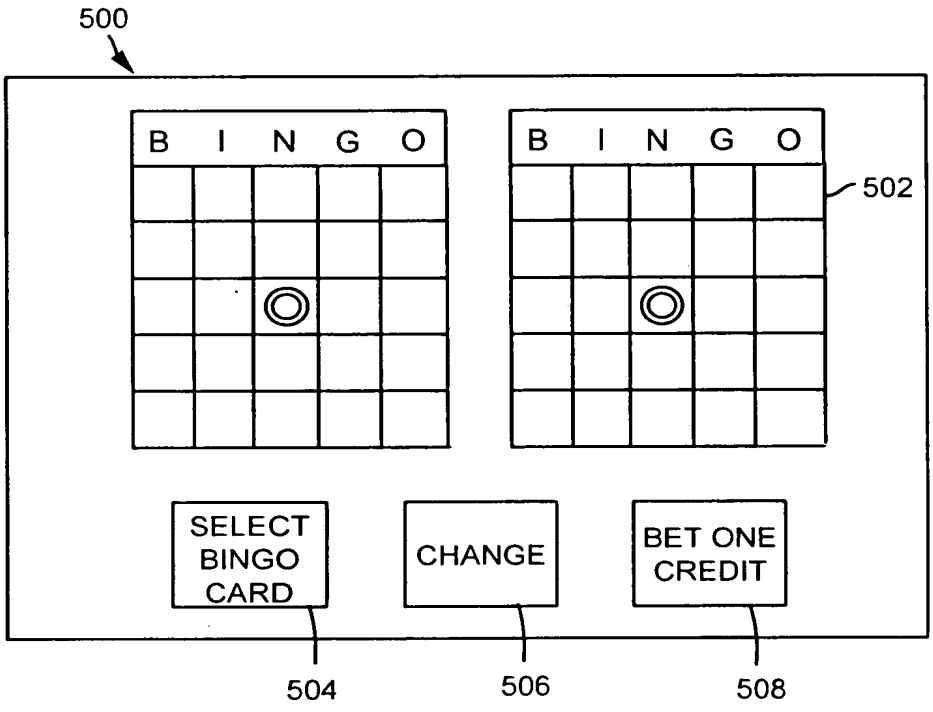

500
B I N G O
B I N G O
502
SELECT BINGO CARD
CHANGE
BET ONE CREDIT
504
506
508

FIG. 17

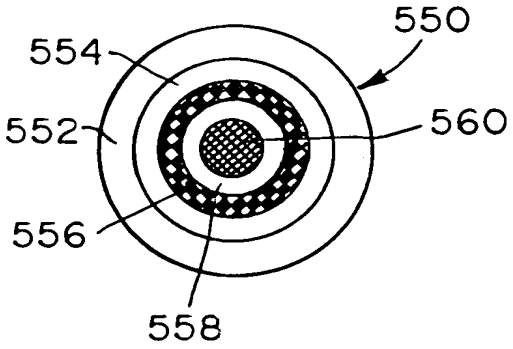



FIG. 18

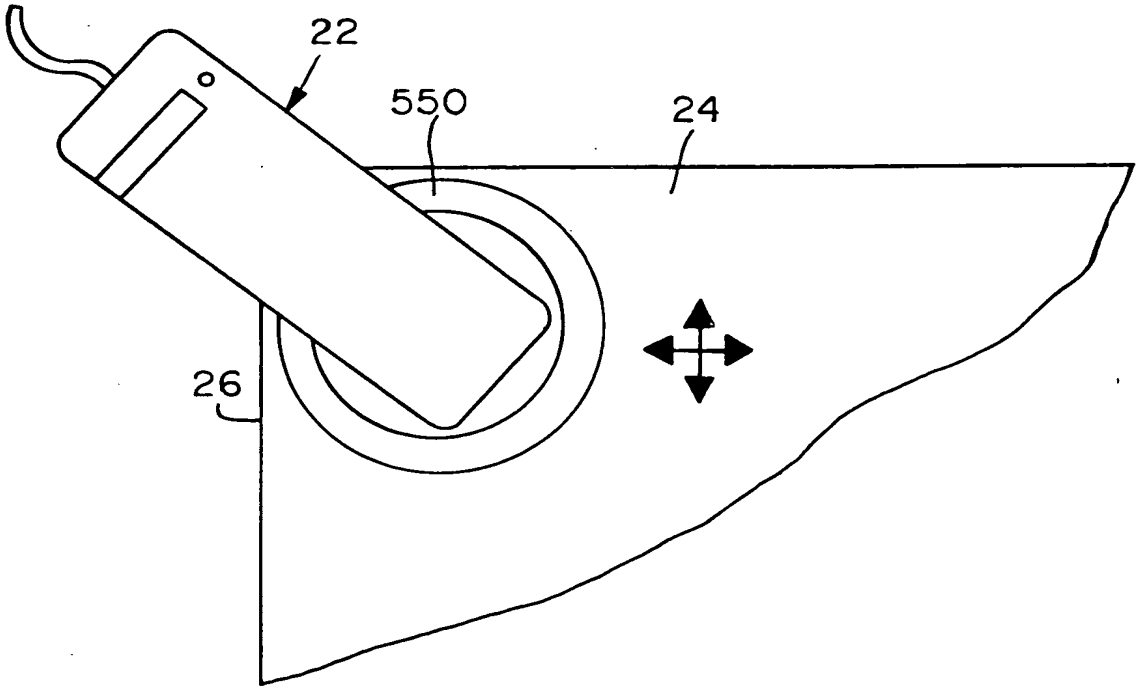



FIG. 19

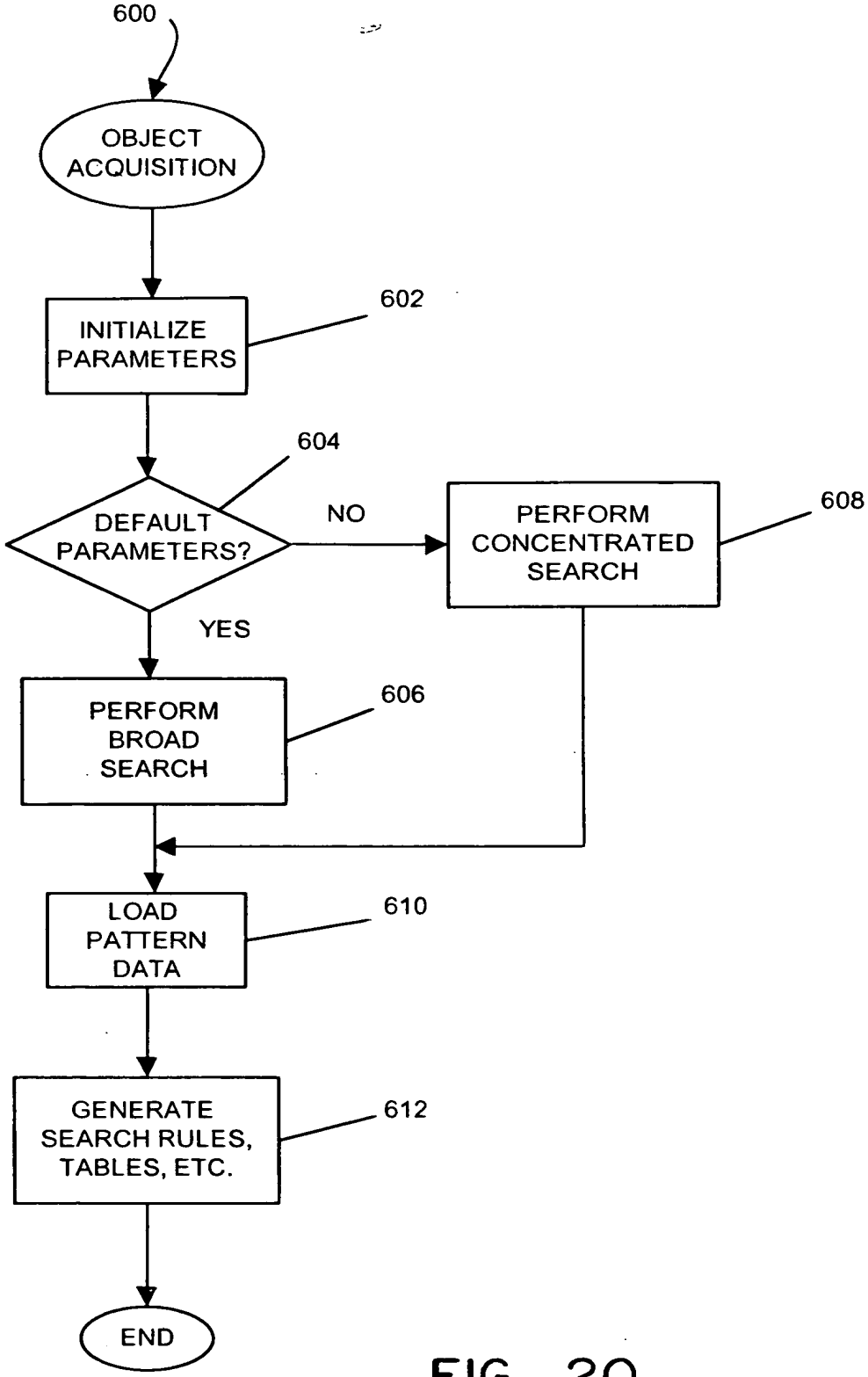

600
OBJECT ACQUISITION
INITIALIZE PARAMETERS
602
604
DEFAULT PARAMETERS?
NO
PERFORM CONCENTRATED SEARCH
608
YES
PERFORM BROAD SEARCH
606
LOAD PATTERN DATA
610
GENERATE SEARCH RULES, TABLES, ETC.
612
END

FIG. 20

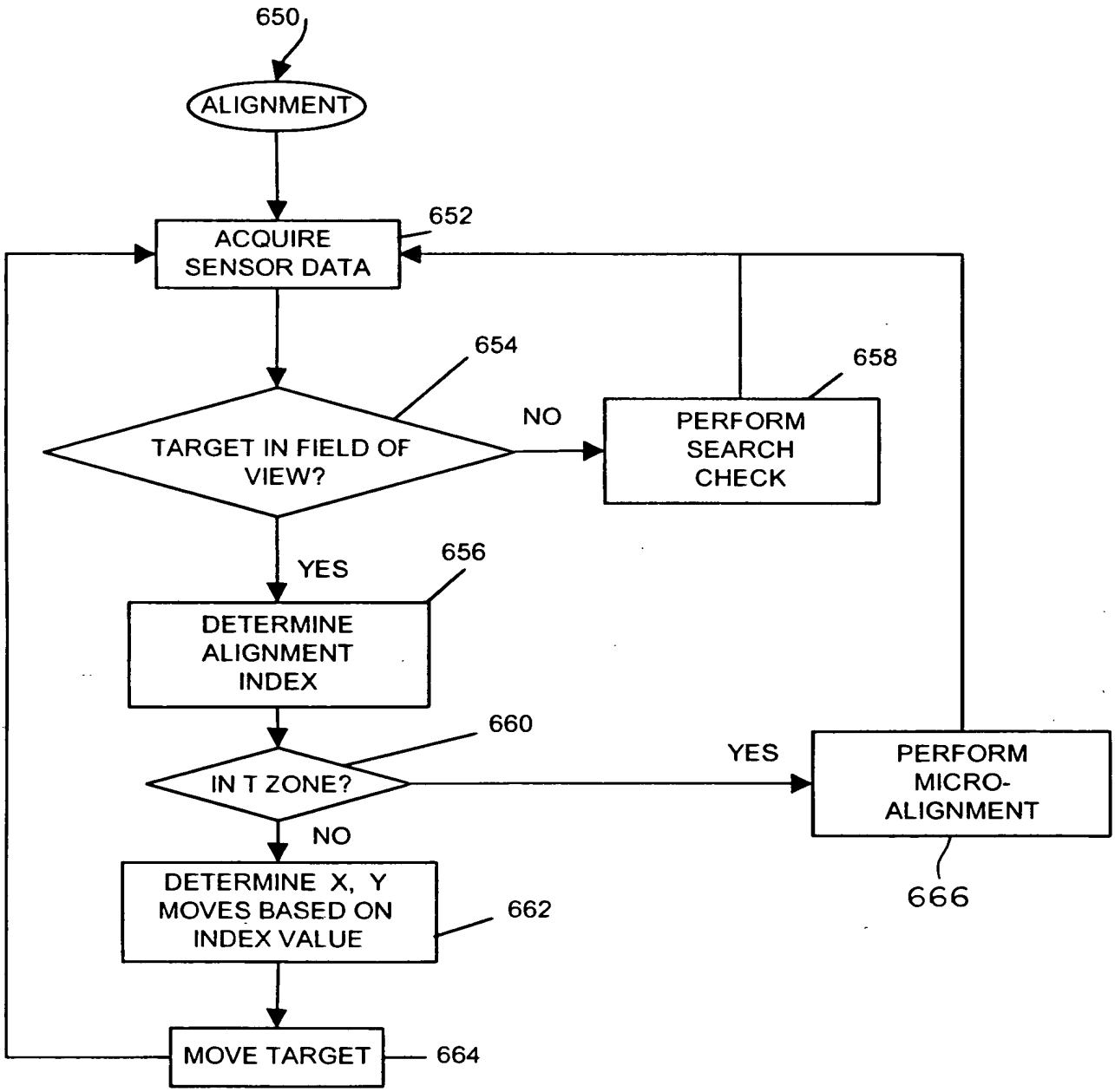

650
ALIGNMENT
ACQUIRE SENSOR DATA
652
654
TARGET IN FIELD OF VIEW?
NO
PERFORM SEARCH CHECK
658
YES
656
DETERMINE ALIGNMENT INDEX
660
IN T ZONE?
YES
PERFORM MICRO-ALIGNMENT
666
NO
DETERMINE X, Y MOVES BASED ON INDEX VALUE
662
MOVE TARGET
664

FIG. 21

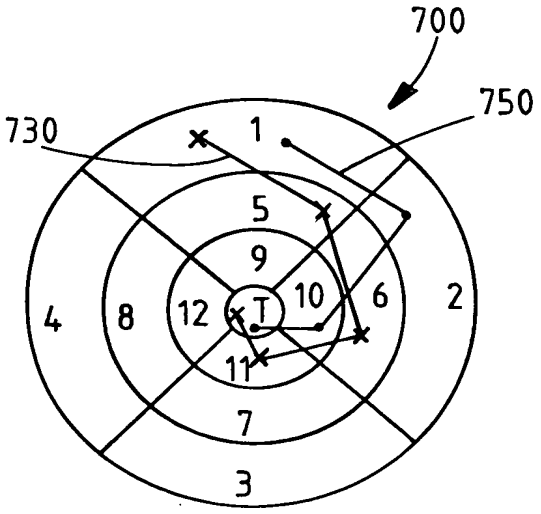



FIG. 22

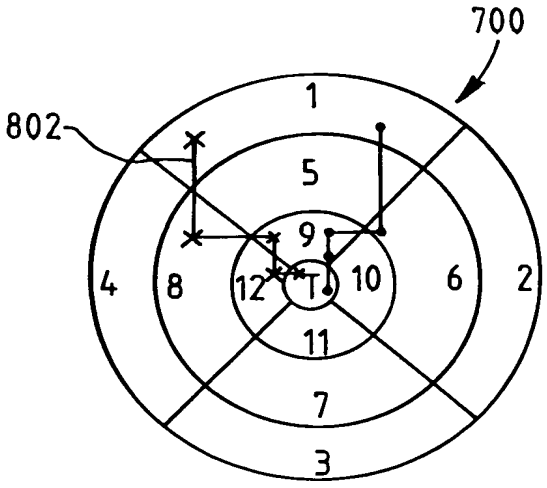



FIG. 24

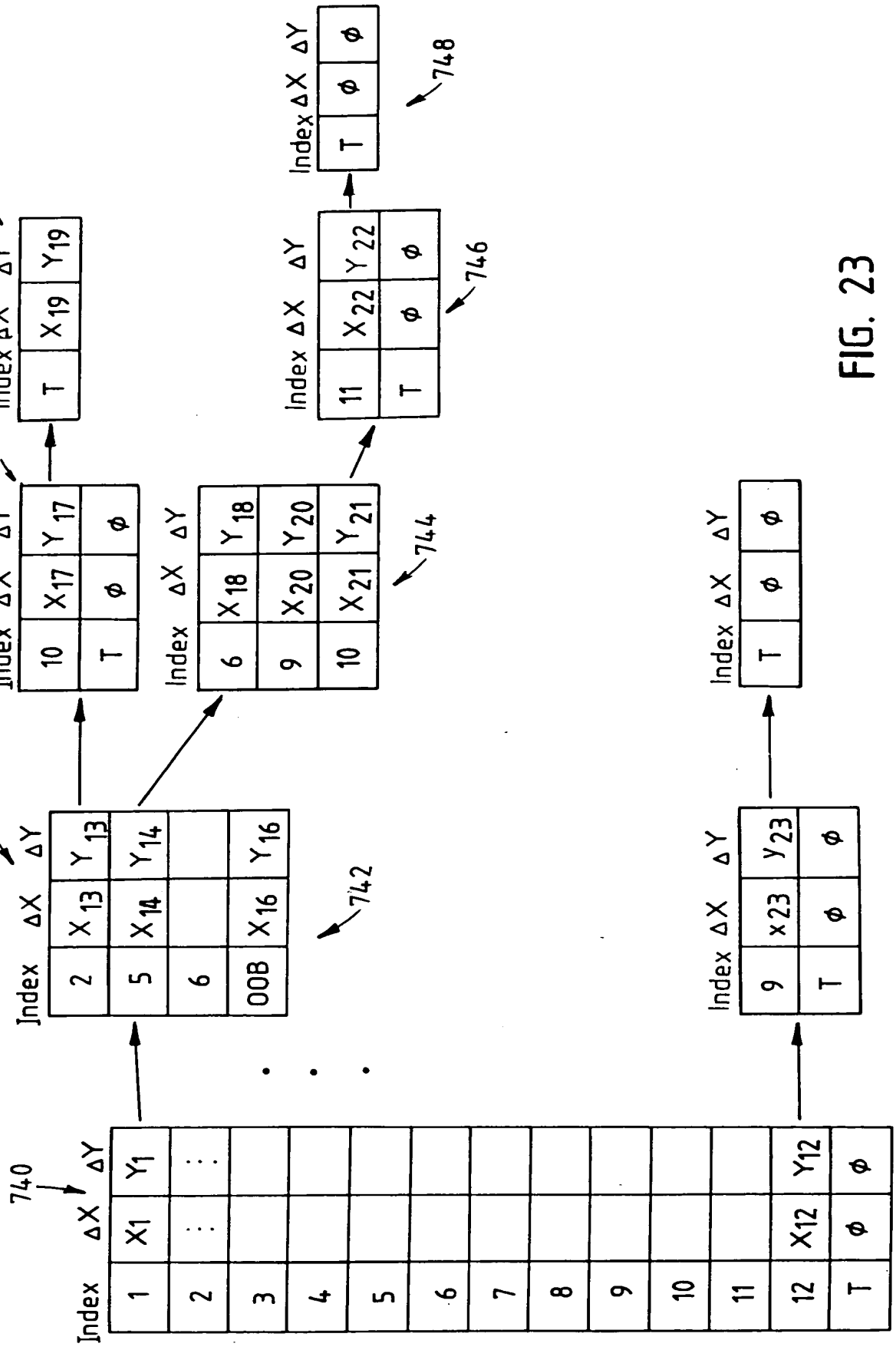

740
Index
ΔX
ΔY
1
X1
Y1
2
X12
12
T
φ
Y12
11
9
x23
y23
10
Index
ΔX
ΔY
T
φ
742
2
X13
Y13
5
X14
Y14
6
OOB
X16
Y16
725
744
6
X18
Y18
9
X20
Y20
10
X21
Y21
746
11
X22
Y22
748
752
10
X17
Y17
754
X19
Y19

FIG. 23

800

| (I) | ΔX | ΔY |
|---|---|---|
| 1 | $\phi$ | $-Y_1$ |
| 2 | $-X_1$ | $\phi$ |
| 3 | $\phi$ | $Y_1$ |
| 4 | $X_1$ | $\phi$ |
| 5 | $\phi$ | $-K_1Y_1$ |
| 6 | $-K_1X_1$ | $\phi$ |
| 7 | $\phi$ | $K_1Y_1$ |
| 8 | $K_1X_1$ | $\phi$ |
| 9 | $\phi$ | $-K_2Y_1$ |
| 10 | $-K_2X_1$ | $\phi$ |
| 11 | $\phi$ | $K_2Y_1$ |
| 12 | $K_2X_1$ | $\phi$ |

Where: $\phi \leq K_2 \leq K_1 \leq 1$

& Where: $X_1$ & $Y_1$ may be dynamically adjusted

FIG. 25